AMENDMENTS TO THE CLAIMS

1. (Previously Presented) In an integrated computer telephony system including a call routing system, a method for routing a call based on the identity of an originating source of said call, comprising:

creating a plurality of distinct routing lists for a telephony subscriber, each of said routing lists being associated with at least one originating source and comprising an ordered list of directory numbers where the subscriber can be reached;

wherein creating said plurality of distinct routing lists comprises:

receiving a first plurality of directory numbers for said subscriber;

receiving a first order for the directory numbers;

creating a first routing list;

receiving a first calling number;

associating the first calling number with the first routing list;

receiving a second plurality of directory numbers for said subscriber;

receiving a second order for the directory numbers;

creating a second routing list;

receiving a second calling number;

associating the second calling number with the second routing list;

receiving said call from an originating source;

identifying said originating source of said call;

selecting a routing list from said plurality of routing lists based on the identity of said originating source, wherein selecting the routing list comprises matching the identity of the originating source with a calling number associated with one of the plurality of distinct routing lists; and

directing said call sequentially to the directory numbers on said routing list selected.

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2.   (Previously Presented) The method of claim 1, wherein said selecting a routing list step further comprises:

retrieving a default routing list if the identity of the originating source does not match any of the calling numbers associated with the routing lists.

3.   (Previously Presented) The method of claim 1, wherein identifying said originating source of said call further comprises:

requesting said originating source to provide an identification code; and

receiving said identification code.

4.   (Previously Presented) The method of claim 1, wherein said integrated computer telephony system provides a calling line identification service and identifying said originating source of said call further comprises:

receiving a calling line identification for said originating source; and

using the calling line identification to identify the originating source.

1 5. (Previously Presented) In a program module responsive to receiving communi-

2 cations for a personal number subscriber, a method for routing a communication to said subscriber,

3 comprising:

4 creating a plurality of distinct routing lists for a telephony subscriber, each of said routing

5 lists comprising an ordered list of directory numbers where the subscriber may be reached and

6 being associated with at least one originating source;

7 wherein creating said plurality of distinct routing lists comprises:

8 receiving a first plurality of directory numbers for said subscriber;

9 receiving a first order for the directory numbers;

10 creating a first routing list;

11 receiving a first calling number;

12 associating the first calling number with the first routing list;

13 receiving a second plurality of directory numbers for said subscriber;

14 receiving a second order for the directory numbers;

15 creating a second routing list;

16 receiving a second calling number;

17 associating the second calling number with the second routing list;

18 receiving a communication directed to a personal number from an originating party;

19 identifying said originating party of said communication;

20 selecting a routing list from said plurality of routing lists based on the identify of said

21 originating party, wherein selecting the routing list comprises matching the identify of the

22 originating party with a directory number associated with one of the plurality of distinct routing

23 lists; and

24 directing said communication sequentially to the directory numbers on said routing list.

1 6. (Previously Presented) The method of claim 5, wherein said selecting a routing list

2 step further comprises:

3 retrieving a default routing list if the identity of the originating party does not match any of

4 the calling numbers associated with the routing lists.

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1 7. (Previously Presented) The method of claim 5, wherein identifying said originating

2 party of said communication further comprises:

3 requesting said originating party to enter an identification code; and

4 receiving an identification code.

1 8. (Previously Presented) The method of claim 5, wherein said selecting a routing list

2 step further comprises selecting said routing list from a group of routing lists identified for said

3 originating party based on the day of the week said communication is received.

1 9. (Previously Presented) The method of claim 5, wherein said selecting a routing list

2 step further comprises selecting said routing list from a group of routing lists identified for said

3 originating party based on the time of day said communication is received.

1 10. (Previously Presented) The method of claim 5, wherein said selecting a routing list

2 step further comprises selecting said routing list from a group of routing lists identified for said

3 originating party based on the day of the week and the time of the day said communication is

4 received.

1   11.   (Previously Presented) A computer system for routing calls for a personal number

2   subscriber based on the calling line identification of an originating party, comprising:

3   a processing unit;

4   a memory storage device operative to store a plurality of routing lists for said personal

5   number subscriber by:

6   receiving a first plurality of directory numbers for said subscriber;

7   receiving a first order for the directory numbers;

8   creating a first routing list;

9   receiving a first calling number;

10   associating the first calling number with the first routing list;

11   receiving a second plurality of directory numbers for said subscriber;

12   receiving a second order for the directory numbers;

13   creating a second routing list;

14   receiving a second calling number; and

15   associating the second calling number with the second routing list;

16   a receiving interface device coupled to said processing unit for receiving calls;

17   a transmitting interface device coupled to said processing unit for placing calls;

18   said processing unit being operative to:

19   receiving a call on said receiving interface device from an originating party, said call

20   being directed to said personal number subscriber;

21   detect a calling line identification for said originating party;

22   retrieve the first routing list associated with the first calling umber from said

23   memory storage device if the calling line identification corresponds to said first calling number;

24   retrieve a default routing list from said memory storage device if the calling number

25   is not associated with one of the routing lists; and

26   direct said call sequentially to the directory numbers on said retrieved routing list.

1   12.   (Previously Presented) The computer system of claim 11, wherein said processing

2   unit directs said call sequentially to the directory numbers on said retrieved routing list by:

3   (a) selecting a first directory number from said routing list;

4   (b) routing said call to said first directory number;

5   (c) receiving communication disposition information from said first directory

6   number; and

7   (d) if said communication disposition indicates said retrieved routing step failed,

8   selecting a next directory number from said routing list and repeating steps (b)-(d) at said next

9   directory number.

13. (Previously Presented) A computer-readable medium on which is stored a computer program for selecting a routing list and directing a call based on an identifying criteria, and a data file containing a plurality of routing lists for a called party, wherein each of said routing lists comprises a plurality of directory numbers where the subscriber can be reached, said directory numbers being in an order determined by the subscriber, said computer program comprising instructions which, when executed by a computer, perform the steps of:

creating a plurality of distinct routing lists for a telephony subscriber, each of said routing lists comprising an ordered list of directory numbers where the subscriber can be reached and being associated with at least one originating source;

wherein creating said plurality of distinct routing lists comprises:

receiving a first plurality of directory numbers for said subscriber;

receiving a first order for the directory numbers;

creating a first routing list;

receiving a first calling number;

associating the first calling number with the first routing list;

receiving a second plurality of directory numbers for said subscriber;

receiving a second order for the directory numbers;

creating a second routing list;

receiving a second calling number; and

associating the second calling number with the second routing list;

receiving a communication for said called party;

obtaining said identifying criteria from said communication;

retrieving a routing list from said data file based on said identifying criteria; and

directing said communication sequentially to the directory numbers listed on said routing list.

14. (Previously Presented) The computer-readable medium recited in claim 13, wherein said identifying criteria comprises a calling line identification message and said step of obtaining an identifying criteria further comprises receiving said calling line identification message.

15.   (Previously Presented) The computer-readable medium recited in claim 13, wherein said identifying criteria comprises a dual tone multi-frequency code sequence and said step of obtaining an identifying criteria further comprises detecting said dual tone multi-frequency code sequences.

16.   (Previously Presented) The computer-readable medium recited in claim 13, wherein said identifying criteria comprises a dual tone multi-frequency code sequence and said step of obtaining identifying criteria further comprises the steps of:
        providing keypad menu selection options to said called party; and
        receiving a dual tone multi-frequency signal corresponding to a keypad menu selection from said called party.

17.   (Previously Presented) The method of claim 1, wherein identifying said originating source of said call further comprises:
        requesting said originating source to provide a speech sample; and
        receiving said speech sample.

18.   (Previously Presented) the method of claim 5, wherein identifying said originating party of said communications further comprises:
        requesting said originating party to enter a speech sample; and
        receiving said speech sample.

19.   (Cancelled)

20.   (Cancelled)

21.   (Cancelled)

1   22.   (Previously Presented) The method of claim 1, wherein said selecting a routing list

2 step further comprises selecting said routing list based on the day of the week said communication

3 is received.

1   23.   (Previously Presented) The method of claim 1, wherein said selecting a routing list

2 step further comprises selecting said routing list based on the time of day said communication is

3 received.

1   24.   (Previously Presented) The method of claim 1, wherein said selecting a routing list

2 step further comprises selecting said routing list based on the day of the week and the time of the

3 day said communication is received.

1   25.   (Previously Presented) The method of claim 1, wherein said selecting a routing list

2 step further comprises the steps of:

3   detecting an area code associated with said originating source;

4   retrieving an associated routing list for said originating source based on the area

5 code; and

6   retrieving a default routing list if said associating routing list does not exist.

1   26.   (Previously Presented) The method of claim 1, wherein said selecting a routing list

2 step further comprises the steps of:

3   detecting an exchange associated with said originating source;

4   retrieving an associated routing list for said originating source based on said

5 exchange; and

6   retrieving a default routing list if said associated routing list does not exist.

1   27.   (Cancelled)

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28.   (Previously Presented) In an integrated computer telephony system including a call
routing system, a method for routing a call, the method comprising the steps of:

    maintaining a plurality of routing lists for a telephony subscriber, each of the routing lists
    being associated with at least one originating source and comprising an ordered list of
    directory numbers where the subscriber can be reached;

    receiving a call from an originating source;

    requesting that the originating source provide identifying information;

    receiving from the originating source identifying information;

    selecting a particular routing list from the plurality of routing lists based at least in part upon
        the received identifying information; and

    directing the call sequentially to the directory numbers on the particular routing list.

29.   (Previously Presented) In an integrated computer telephony system including a call
routing system, a method for routing a call, the method comprising the steps of:

    maintaining a plurality of routing lists for a telephony subscriber of a private branch
    exchange coupled to a public switched telephone network, each of the routing lists being
    associated with at least one originating source and comprising an ordered list of directory
    numbers where the subscriber can be reached;

    receiving a call from an originating source;

    determining whether the call is external or internal to the private branch exchange;

    selecting a particular routing list from the plurality of routing lists based at least in part upon
        the determination of whether the call is external or internal to the private branch
        exchange; and

    directing the call sequentially to the directory numbers on the particular routing list.

1   30.   (Previously Presented) In an integrated computer telephony system including a call

2   routing system, a method for routing a call, the method comprising the steps of:

3   maintaining a plurality of routing lists for a telephony subscriber, each of the routing lists

4   being associated with at least one originating source and comprising an ordered list of

5   directory numbers where the subscriber can be reached;

6   receiving a call from an originating source;

7   determining whether the call requires special processing;

8   responsive to determining the call does not require special processing, further including the

9   steps of:

10   providing the originating source with keypad menu selection options;

11   receiving from the originating source a dual tone multi-frequency signal

12   corresponding to a keypad menu selection;

13   selecting a particular routing list from the plurality of routing lists based at least in

14   part upon the received signal; and

15   directing the call sequentially to the directory numbers on the particular routing list.

1   31.   (New) In an integrated computer telephony system including a call routing system,

2   a method for routing a call based on the identity of an originating source of said call, comprising the

3   steps of:

4   maintaining a plurality of routing lists, each of said routing lists being associated with at

5   least one originating source and each routing list comprising a plurality of directory

6   numbers;

7   receiving said call from said originating source;

8   selecting a routing list associated with said originating source from said plurality of routing

9   lists; and

10   directing said call to the directory numbers on said routing list.

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32. (New) In an integrated computer telephony system including a call routing system, a method for routing a call, comprising the steps of:

    maintaining a plurality of routing lists, each routing list comprising a plurality of directory numbers;

    receiving the call from an originating source;

    receiving identifying criteria;

    using the identifying criteria to determine whether a first routing lists exists, wherein the first routing list is associated with the originating source by the identifying criteria;

    responsive to determining the first routing list exists, further including the steps of:

        (a) retrieving the first routing list;

        (b) directing the call to one of the directory numbers on the first routing list;

        (c) determining whether the call was connected;

        (d) responsive to the call not being connected, determining whether the call has been directed to each directory number on the first routing list;

        (e) responsive to determining both that the call has not been connected and that the call has not been directed to each directory number on first routing list, repeating steps (b), (c), and (d);

        (f) responsive to determining both that the call has not been connected and that the call has been directed to each directory number on first routing list, retrieving a second routing list, the second routing list being a default routing list;

        (h) responsive to determining both that the call has not been connected and that the call has been directed to each directory number on first routing list, directing the call to one of the directory numbers on the default routing list;

        (i) responsive to determining both that the call has not been connected and that the call has been directed to each directory number on first routing list, determining whether the call was connected;

        (j) responsive to determining both that the call has not been connected and that the call has been directed to each directory number on first routing list and responsive to the call not being connected, repeating steps (h), and (i);

31   responsive to determining the first routing list does not exist, further including the steps of:

32   (k) retrieving the default routing list;

33   (l) directing the call to one of the directory numbers on the default routing list;

34   (m) determining whether the call was connected; and

35   (n) responsive to the call not being connected, repeating steps (l), and (m).